| <br> | Claims |  |
|------|--------|--|
|      |        |  |

| Applica | ation/Co | ntrol No. |
|---------|----------|-----------|
|---------|----------|-----------|

Applicant(s)/Patent under Reexamination

10/521,829

PAYNE, STEPHEN A.

Examiner

Art Unit

Amina Khan

1751

| <b>√</b> | Rejected |
|----------|----------|
| <br>  11 | Allowed  |

| - | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| ÷ | Restricted                     |

| N | Non-Elected  |
|---|--------------|
| _ | Interference |

| A | Appeal   |
|---|----------|
| 0 | Objected |

| Cla                                              | aim      | Date           |                                                  |                |              |                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |                |              |  |
|--------------------------------------------------|----------|----------------|--------------------------------------------------|----------------|--------------|----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------------|--------------|--|
| Final                                            | Original | 90/81/6        |                                                  |                |              |                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |                |              |  |
|                                                  | 1        | •              |                                                  |                |              |                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |                |              |  |
|                                                  | 2        | 1              |                                                  |                |              |                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |                |              |  |
|                                                  | 3        | ·              |                                                  |                |              |                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |                |              |  |
|                                                  | 4        | -              |                                                  |                |              |                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |                |              |  |
|                                                  | 5        | -              |                                                  |                |              |                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |                |              |  |
|                                                  | 6        | -              |                                                  |                |              |                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |                |              |  |
| <u> </u>                                         | 7        | Ŀ              |                                                  |                |              |                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | _        |                | _            |  |
|                                                  | 8        | -              |                                                  |                |              |                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |                |              |  |
| <u> </u>                                         | 9        | -              |                                                  |                |              |                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | $\vdash$ | -              |              |  |
|                                                  | 10       | -              |                                                  |                |              |                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | _        | $\blacksquare$ | <u> </u>     |  |
| ├—                                               | 11       | -              | $\vdash$                                         |                |              | -                                                              | _                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | $\vdash$ | $\vdash$       | <u> </u>     |  |
|                                                  | 13       | -              | Н                                                | ⊢              | -            | -                                                              | $\vdash$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | H        | H              | <u> </u>     |  |
| <del> </del>                                     | 14       | <u>.</u>       |                                                  | $\vdash$       |              |                                                                | $\vdash$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | H        | H              | <del> </del> |  |
| <del> </del>                                     | 15       | <del>  -</del> | $\vdash$                                         | <del></del>    |              | -                                                              | $\vdash$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | $\vdash$ | H              | $\vdash$     |  |
|                                                  | 16       | -              | $\vdash$                                         | $\vdash$       | -            | -                                                              | $\vdash$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | $\vdash$ |                | $\vdash$     |  |
| $\vdash$                                         | 17       | -              | $\vdash$                                         | -              |              | Н                                                              | $\vdash$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | $\vdash$ | -              | $\vdash$     |  |
| <del>                                     </del> | 18       | -              | $\vdash$                                         | _              |              |                                                                | Н                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          | -              |              |  |
|                                                  | 19       | -              | $\vdash$                                         |                |              |                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |                |              |  |
|                                                  | 20       | -              | _                                                | _              |              |                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |                |              |  |
|                                                  | 21       | -              |                                                  |                |              |                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |                | _            |  |
|                                                  | 22       | -              |                                                  |                |              |                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |                |              |  |
|                                                  | 23       | 1              |                                                  |                |              |                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |                |              |  |
|                                                  | 24       | 1              |                                                  |                |              |                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |                |              |  |
|                                                  | 25       | 1              |                                                  |                |              |                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |                |              |  |
|                                                  | 26       | 1              |                                                  |                |              |                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |                |              |  |
|                                                  | 27       | V              |                                                  |                |              |                                                                | $ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ld}}}}}}$ |          |                |              |  |
| <u></u>                                          | 28       | 1              | lacksquare                                       |                |              |                                                                | L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |                | _            |  |
|                                                  | 29       | ŀ              | _                                                |                |              |                                                                | _                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |                | _            |  |
|                                                  | 30       | <u>  -</u>     | <u> </u>                                         | _              |              |                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | _        | _              | _            |  |
| <u> </u>                                         | 31       | 1              | _                                                | _              | _            |                                                                | _                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | _        |                | _            |  |
|                                                  | 32       | 1              | <u> </u>                                         | <u> </u>       |              | <u> </u>                                                       | <u> </u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | H        | $\vdash$       | $\vdash$     |  |
| <u> </u>                                         | 33       | 1              | <u> </u>                                         | <u> </u>       |              |                                                                | <u> </u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | $\vdash$ | $\vdash$       | -            |  |
|                                                  | 34       | 1              | ├-                                               | <u> </u>       |              | <del> </del>                                                   | <u> </u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | $\vdash$ | $\vdash$       | $\vdash$     |  |
| <u> </u>                                         | 35       | _              | -                                                | $\vdash$       | <del> </del> | <b> </b> -                                                     | <del> </del>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | $\vdash$ | $\vdash$       | $\vdash$     |  |
| $\vdash$                                         | 36<br>37 | 1              | -                                                | $\vdash$       | $\vdash$     |                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -        | $\vdash$       | $\vdash$     |  |
| $\vdash$                                         | 38       | V              | <del> </del>                                     | $\vdash$       | $\vdash$     | $\vdash$                                                       | $\vdash$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          | $\vdash$       | $\vdash$     |  |
|                                                  | 39       | 1              | -                                                | -              | $\vdash$     | _                                                              | $\vdash$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | $\vdash$ | _              | -            |  |
|                                                  | 40       | 1              | <b></b> -                                        | <del> </del> - | $\vdash$     | $\vdash$                                                       | $\vdash$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | $\vdash$ | _              | _            |  |
| <del> </del>                                     | 41       | Ì              |                                                  | -              | $\vdash$     | $\vdash$                                                       | $\vdash$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | $\vdash$ |                |              |  |
|                                                  | 42       | Ì              | <del>                                     </del> | $\vdash$       | T            | $\vdash$                                                       | Г                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | $\vdash$ | _              | Г            |  |
|                                                  | 43       | 1              |                                                  | Г              |              |                                                                | Г                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |                |              |  |
|                                                  | 44       | 1              |                                                  |                | Γ            |                                                                | <u> </u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Г        |                |              |  |
|                                                  | 45       | 1              |                                                  |                |              |                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |                |              |  |
|                                                  | 46       | V              |                                                  |                |              |                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |                |              |  |
|                                                  | 47       | V              |                                                  |                |              |                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |                |              |  |
|                                                  | 48       | 1              |                                                  |                |              |                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |                |              |  |
|                                                  | 49       | V              | 匚                                                |                |              | $ldsymbol{oxedsymbol{oxedsymbol{oxedsymbol{oxedsymbol{eta}}}}$ |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |                |              |  |
| 1                                                | 50       | 1              | l                                                | ĺ              | l l          | 1                                                              | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          | i              | i            |  |

| <u> </u> |          |          |          |                                              |                                                  |                |          |                                     |                                                  | _            |      | -            |                                                  |              |          | _                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                | _        |          | _        | _        | _                                   |
|----------|----------|----------|----------|----------------------------------------------|--------------------------------------------------|----------------|----------|-------------------------------------|--------------------------------------------------|--------------|------|--------------|--------------------------------------------------|--------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------|----------|----------|----------|-------------------------------------|
| Cla      | im       |          | Date     |                                              |                                                  |                |          | Claim                               |                                                  |              | Date |              |                                                  |              |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |          |          |          |          |                                     |
|          |          |          |          |                                              |                                                  |                |          |                                     |                                                  |              |      |              |                                                  |              |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |          |          |          | 1        |                                     |
| ਜ਼ ∣     | Original | 9/18/06  |          |                                              |                                                  |                |          |                                     | l                                                |              |      | <del>-</del> | Original                                         | 9/18/06      |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |          |          |          | l        |                                     |
| Final    | įġ       | 18/      |          |                                              | l                                                |                |          |                                     | l                                                |              |      | Final        | ij                                               | 18           |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |          |          |          |          |                                     |
| ч        | ŏ        | 6        |          |                                              |                                                  |                |          |                                     | l                                                | l            |      | u.           | ŏ                                                | 6            |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |          |          |          | Į        |                                     |
|          |          |          |          |                                              | <u>L</u>                                         | <u> </u>       | L_       | L                                   |                                                  | <u> </u>     |      |              |                                                  |              |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |          |          | _        |          | _                                   |
|          | 1        | -        |          |                                              |                                                  |                |          |                                     |                                                  |              |      |              | 51                                               | 1            |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |          |          |          |          |                                     |
|          | 2        | -        |          |                                              |                                                  |                |          |                                     |                                                  |              |      |              | 52                                               | 1            |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |          |          |          | -        |                                     |
|          | 3        | -        |          |                                              |                                                  | Г              |          |                                     |                                                  | Г            |      |              | 53                                               | 1            |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |          |          |          |          |                                     |
|          | 4        | -        |          |                                              |                                                  |                |          |                                     |                                                  |              |      |              | 54                                               | 1            |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |          |          |          | T        |                                     |
|          | 5        | -        |          |                                              |                                                  | $\vdash$       | _        | _                                   |                                                  | $\vdash$     |      |              | 55                                               | 1            |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                | _        |          |          |          |                                     |
| _        | 6        | -        | _        | _                                            | $\vdash$                                         | $\vdash$       | _        |                                     | -                                                | $\vdash$     |      |              | 56                                               | 1            |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | _              |          |          |          | $\neg$   | $\neg$                              |
|          | 7        | -        | _        | _                                            | $\vdash$                                         | ┝              |          |                                     | -                                                |              | ľ    |              | 57                                               | 1            |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | _              | _        |          | $\neg$   |          | $\dashv$                            |
| -        | 8        | -        | -        | _                                            | ┝                                                | <del> </del>   |          | -                                   | -                                                | $\vdash$     | i    |              | 58                                               | V            |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |          |          | -        | $\neg$   | $\dashv$                            |
|          |          | -        |          |                                              | ⊢                                                | ┝              | _        | -                                   |                                                  | $\vdash$     |      |              | 59                                               | 1            |          | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                | -        |          |          | $\dashv$ | $\dashv$                            |
| _        | 9        |          |          | _                                            | ⊢                                                | ⊢              | -        | ⊢                                   | <u> </u>                                         |              |      |              |                                                  | 1            | _        | _                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                |          |          |          | $\dashv$ | $\dashv$                            |
| _        | 10       | Ŀ        |          |                                              |                                                  | _              |          | <u> </u>                            | <u> </u>                                         | <u> </u>     |      |              | 60                                               |              |          | $\vdash$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                |          |          |          | $\dashv$ | $\dashv$                            |
|          | 11       | -        | _        | <u> </u>                                     |                                                  | _              | <u> </u> | <u> </u>                            | <u> </u>                                         | <u> </u>     |      |              | 61                                               | 1            |          | _                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                |          |          |          |          | _                                   |
|          | 12       | Ŀ        |          | <u>L</u>                                     | <u> </u>                                         |                | <u> </u> | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | 匚                                                | 匚            |      |              | 62                                               | 1            |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |          |          |          |          | _                                   |
|          | 13       | ٠        |          |                                              | L.                                               |                | _        |                                     |                                                  |              |      |              | 63                                               | 1            |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |          |          |          |          |                                     |
|          | 14       | •        |          |                                              | L                                                | L              | Ĺ        | L                                   | L                                                | L            |      |              | 64                                               | 1            |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |          |          |          |          |                                     |
|          | 15       | -        |          | Γ                                            |                                                  |                |          |                                     |                                                  |              |      |              | 65                                               | ٧            |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |          |          |          |          |                                     |
|          | 16       | -        | Г        |                                              |                                                  |                |          |                                     |                                                  |              | Ιİ   |              | 66                                               | 1            |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |          |          |          |          | $\neg$                              |
| $\neg$   | 17       | -        | $\vdash$ | _                                            | <del>                                     </del> |                |          |                                     |                                                  |              |      |              | 67                                               | 1            |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |          |          |          |          |                                     |
|          | 18       | -        | $\vdash$ | <u> </u>                                     | <del>                                     </del> | $I^-$          | $\vdash$ |                                     |                                                  |              |      |              | 68                                               | 1            |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |          | _        | _        |          |                                     |
| $\dashv$ | 19       | -        | $\vdash$ |                                              | _                                                | -              | -        |                                     |                                                  |              |      |              | ٣                                                | Ė            |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |          | $\vdash$ | -        | $\vdash$ | =                                   |
| -        | 20       | -        | -        |                                              | -                                                | -              | $\vdash$ | $\vdash$                            | -                                                | _            |      |              |                                                  | ⊢            | H        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -              |          |          |          | $\vdash$ | $\dashv$                            |
|          |          | <u> </u> |          | ├                                            | ├                                                | ├              | ⊢        | ├                                   | $\vdash$                                         | -            | li   |              | <u> </u>                                         | -            |          | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                |          |          | -        | $\dashv$ | $\dashv$                            |
|          | 21       | Ŀ        | -        |                                              | ⊢                                                | ┡              | <u> </u> | <u> </u>                            | ⊢                                                | -            |      |              | <u> </u>                                         | <u> </u>     | _        | _                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                | -        | _        |          | $\dashv$ | _                                   |
|          | 22       | <u>-</u> |          | <u>                                     </u> | _                                                | <u> </u>       | <u> </u> | <u> </u>                            | <u> </u>                                         |              | l    |              | <u> </u>                                         | ⊢            |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | _              |          |          |          | _        |                                     |
|          | 23       | 1        | _        | _                                            | _                                                |                | _        | L                                   | L                                                | <u>_</u>     | i I  |              |                                                  | _            |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                | _        | _        |          | -        |                                     |
|          | 24       | 1        | L        | _                                            | _                                                |                |          | L                                   | L                                                |              |      |              |                                                  | 匚            | L        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |          |          |          |          |                                     |
|          | 25       | 1        | <u> </u> |                                              |                                                  |                |          |                                     |                                                  | L            |      |              |                                                  |              |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |          |          |          |          |                                     |
|          | 26       | 1        |          | Ī                                            |                                                  |                |          |                                     |                                                  |              |      |              |                                                  |              |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |          |          |          |          |                                     |
|          | 27       | 1        |          | _                                            |                                                  |                |          |                                     | Г                                                |              | l    |              |                                                  | П            | Г        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |          |          |          |          |                                     |
|          | 28       | 1        |          |                                              |                                                  |                |          |                                     | Г                                                | 1            | 1    |              |                                                  |              |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |          | П        |          |          |                                     |
|          | 29       | -        | $\vdash$ | $\vdash$                                     |                                                  | Т              | Г        | $\vdash$                            | <del>                                     </del> | $\vdash$     | 1    |              |                                                  |              | Т        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |          | $\Box$   |          |          |                                     |
|          | 30       | -        | $\vdash$ | $\vdash$                                     |                                                  |                | _        | _                                   | -                                                | ┪            |      |              |                                                  |              |          | $\vdash$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                | $\vdash$ | -        |          |          |                                     |
|          | 31       | 1        | $\vdash$ | $\vdash$                                     |                                                  | ⊢              |          | -                                   | -                                                | ┢            | l    |              |                                                  |              | $\vdash$ | $\vdash$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                | $\vdash$ |          | -        |          | $\neg$                              |
|          | 32       | 1        | $\vdash$ | $\vdash$                                     | $\vdash$                                         | <del>  -</del> | -        | -                                   | $\vdash$                                         | $\vdash$     |      |              | <del> </del>                                     | H            | $\vdash$ | $\vdash$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b></b>        |          | -        |          | $\vdash$ | _                                   |
|          |          |          | _        | $\vdash$                                     | <del> </del>                                     | -              | -        | $\vdash$                            | $\vdash$                                         | $\vdash$     |      |              | <del>                                     </del> | $\vdash$     | -        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -              |          | $\vdash$ |          | Н        | <del></del>                         |
|          | 33       | 1        | <u> </u> | ⊢                                            | <del> </del>                                     | <b> </b>       | <u> </u> | $\vdash$                            | <u> </u>                                         | -            |      |              | <u> </u>                                         | $\vdash$     | ├-       | ├                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <del>  -</del> | $\vdash$ | -        | $\vdash$ | $\vdash$ | <del></del>                         |
|          | 34       | 1        | _        | <u> </u>                                     | <u> </u>                                         |                | _        | _                                   | <u> </u>                                         |              |      |              | —                                                | $\vdash$     | <u> </u> | <b> </b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <u> </u>       | <u> </u> | _        |          | $\vdash$ | لـــا                               |
|          | 35       | 1        | _        | <u> </u>                                     |                                                  |                | <u> </u> | L                                   | _                                                | <u> </u>     |      |              |                                                  | 上            | ļ        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | $\vdash$       | <u> </u> | <u> </u> | _        | Ш        | $\vdash$                            |
|          | 36       | Ŀ        | L        | _                                            |                                                  | L              | <u> </u> | <u> </u>                            | _                                                | <u></u>      |      |              |                                                  | ot           | _        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | _              | L-       |          |          |          | $\vdash$                            |
|          | 37       | 1        |          |                                              |                                                  | L              |          | L                                   | L                                                | 匚            |      |              |                                                  | $oxed{oxed}$ | 匚        | $oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{ol}}}}}}}}}}}}}}}}}$ |                | <u>L</u> | <u> </u> |          |          | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ |
|          | 38       | 1        |          | Γ                                            | Γ                                                | Π              | Ι_       | _                                   |                                                  |              |      |              |                                                  |              |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                | L        | L        |          |          |                                     |
|          | 39       | 1        |          | Г                                            | П                                                |                |          |                                     | Γ                                                |              |      |              |                                                  |              |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |          |          |          |          |                                     |
|          | 40       | V        | <u> </u> | Г                                            | Г                                                |                | Г        | Г                                   | Г                                                |              |      |              | <u> </u>                                         | Γ            |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |          |          |          |          |                                     |
|          | 41       | Ì        | _        | $\vdash$                                     | $\vdash$                                         |                | $\vdash$ | Н                                   | -                                                | $\vdash$     | 1    |              | <del>                                     </del> | T -          | <b>-</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                | <u> </u> |          |          | $\Box$   | $\vdash$                            |
|          | 42       | Ì        |          | $\vdash$                                     | $\vdash$                                         |                | $\vdash$ | $\vdash$                            | -                                                | $\vdash$     |      | -            | <del>                                     </del> | $\vdash$     | $\vdash$ |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |          |          | _        | $\vdash$ | $\vdash$                            |
|          | 43       | Ì        | -        | $\vdash$                                     | $\vdash$                                         | $\vdash$       | -        |                                     | $\vdash$                                         |              |      |              | $\vdash$                                         | $\vdash$     | -        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |          | $\vdash$ | $\vdash$ | $\vdash$ |                                     |
|          |          | 1        | <u> </u> | $\vdash$                                     | $\vdash$                                         | ├              | -        | <del> </del>                        | $\vdash$                                         | $\vdash$     |      |              | <del>                                     </del> | ├            |          | <del> </del>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                |          | $\vdash$ | $\vdash$ | $\vdash$ | $\vdash$                            |
|          | 44       | 1        | $\vdash$ | -                                            | -                                                | ├—             | <u> </u> | $\vdash$                            | $\vdash$                                         | <del> </del> |      |              | <u> </u>                                         | ├—           | <b>—</b> | <del> </del> —                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ⊢              | $\vdash$ | $\vdash$ | $\vdash$ |          | $\vdash$                            |
|          | 45       | 1        |          | <u> </u>                                     | ┡                                                | _              | _        | Щ.                                  | <b> </b>                                         | <b>—</b>     |      | L            |                                                  | 1            | <u> </u> | <del> </del>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <u> </u>       | <u> </u> | <u> </u> | <u> </u> | _        | <u> </u>                            |
|          | 46       | V        | <u> </u> | _                                            | _                                                | <u> </u>       | <u> </u> | <u> </u>                            | _                                                | <u> </u>     |      |              | <u> </u>                                         | <u> </u>     | <u> </u> | <u> </u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <u>_</u>       | <u> </u> | <u>_</u> | <u> </u> | _        | <b>—</b>                            |
|          | 47       | 1        | L        | L                                            |                                                  |                |          |                                     |                                                  | _            |      |              |                                                  | <u>L</u>     |          | <u>L</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <u>_</u>       | <u>_</u> | _        | <u>_</u> | Ш        | <u> </u>                            |
|          | 48       | 1        |          |                                              | $\Box$                                           | L              | L        | Ĺ                                   |                                                  | L            |      |              | L                                                | Ĺ            | L        | L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | L              | $L^-$    |          |          |          |                                     |
|          | 49       | 1        |          |                                              |                                                  |                |          |                                     | Γ                                                |              |      |              | I                                                |              |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |          |          |          |          |                                     |
| _        | 50       | 1        | Г        | П                                            | Т                                                | Г              | Г        | Т                                   |                                                  |              | 1    |              | $\overline{}$                                    | П            | Г        | Г                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Г              | Г        | Г        | Г        |          | $\overline{}$                       |
|          | , ,,,    |          |          |                                              |                                                  |                |          |                                     |                                                  |              |      |              |                                                  |              |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |          |          |          |          |                                     |

|          |              | Date     |              |          |          |          |          |          |               |          |  |
|----------|--------------|----------|--------------|----------|----------|----------|----------|----------|---------------|----------|--|
|          | aim          | Date     |              |          |          |          |          |          |               |          |  |
| Final    | Original     |          |              |          |          |          |          |          |               |          |  |
|          |              |          |              |          |          |          |          |          |               |          |  |
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| $\vdash$ |              |          | Н            |          |          |          |          |          | -             |          |  |
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|          |              |          |              |          |          |          |          |          |               |          |  |
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|          |              | L        |              |          |          | l        | L        |          |               | L.       |  |